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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	500.43356X00
First Inventor	KOBAYASHI, TAKEHIKO
Title	DEMODULATION METHOD AND APPARATUS BASED ON DIFFERENTIAL DETECTION SYSTEM FOR π/4 SHIFTED QPSK MODULATED WAVE
Express Mail Label No.	

APPLICATION ELEMENTS
SEE MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:
Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.
See 37 CFR 1.27.
- Specification [Total Pages: 19]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets: 10]
- Oath or Declaration [Total Sheets: 3]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
Named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)
- Application Data Sheet. See 37 CFR 1.76

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
- c. Statements verifying identity of above copies

- | ACCOMPANYING APPLICATION PARTS | |
|---|---|
| 9. <input checked="" type="checkbox"/> | Assignment Papers (cover sheet & documents(s)) |
| 10. <input type="checkbox"/> | 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney
(when there is an assignee) |
| 11. <input type="checkbox"/> | English Translation Document (if applicable) |
| 12. <input type="checkbox"/> | Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations |
| 13. <input type="checkbox"/> | Preliminary Amendment |
| 14. <input checked="" type="checkbox"/> | Return Receipt Postcard (MPEP 503)
(Should be specifically itemized) |
| 15. <input checked="" type="checkbox"/> | Certified Copy of Priority Document(s)
(if foreign priority is claimed) |
| 16. <input type="checkbox"/> | Nonpublication Request under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. |
| 17. <input checked="" type="checkbox"/> | Other: Figs. 1-12; Credit Card Payment Form; Info. Discr. Sheet Under 37 CFR 1.56 w/refs. |

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No.:

Prior application information: Examiner: _____ Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number	020457			OR <input type="checkbox"/> Correspondence address below
Name	ANTONELLI, TERRY, STOUT & KRAUS, LLP			
Address				
City		State		Zip Code
Country	Telephone	(703) 312-6600		Fax (703) 312-6666
Name (Print/Type)	Hung H. Bui		Registration No. (Attorney/Agent)	40,415
Signature	<i>Hung H. Bui</i>		Date	December 24, 2003

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent

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<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2004</h2>		<i>Complete if Known</i>	
<i>Effective 10/01/2003. Patent fees are subject to annual revision.</i>			
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number KOBAYASHI, TAKEHIKO	
TOTAL AMOUNT OF PAYMENT (\$ 810.00)		Filing Date December 24, 2003	
METHOD OF PAYMENT (check all that apply)		First Named Inventor Examiner Name	
<input type="checkbox"/> Check <input checked="" type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None		Art Unit Attorney Docket No. 500.43356X00	
FEE CALCULATION (continued)			
3. ADDITIONAL FEES			
Deposit Account: Deposit Account Number 01-2135 Antonelli, Terry, Stout & Kraus, LLP		Large Entity Small Entity	
The Director is authorized to: (check all that apply) <input type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments		Fee Description Surcharge – late filing fee or oath	
<input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application.		Fee Code (\$) 1051 130 2051 65	
<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		1052 50 2052 25 Surcharge – late provisional filing fee or cover sheet	
FEE CALCULATION		1053 130 1053 130 Non-English specification	
1. BASIC FILING FEE		1812 2,520 1812 2,520 For filing a request for ex parte reexamination	
Large Entity Small Entity		1804 920* 1804 920* Requesting publication of SIR prior to Examination action	
Fee Fee Fee Fee Description		1805 1,840 1805 1,840* Requesting publication of SIR after Examiner action	
Code (\$) Code (\$) Fee Description		1251 110 2251 55 Extension for reply within first month	
1001 770 2001 385 Utility filing fee		1252 420 2252 210 Extension for reply within second month	
1002 340 2002 170 Design filing fee		1253 950 2253 475 Extension for reply within third month	
1003 530 2003 265 Plant filing fee		1254 1,480 2254 740 Extension for reply within fourth month	
1004 770 2004 385 Reissue filing fee		1255 2,010 2255 1,005 Extension for reply within fifth month	
1005 160 2005 80 Provisional filing fee		1401 330 2401 165 Notice of Appeal	
SUBTOTAL (1)		1402 330 2402 165 Filing a brief in support of an appeal	
770		1403 290 2403 145 Request for oral hearing	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1451 1,510 1451 1,510 Petition to institute a public use proceeding	
Fee from		1452 110 2452 55 Petition to revive – unavoidable	
Extra Claims below		1453 1,330 2453 665 Petition to revive – unintentional	
Total Claims 6 -20** = 0 x 18.00 = 0.00		1501 1,330 2501 665 Utility issue fee (or reissue)	
Indep. Claims 2 -3** = 0 x 86.00 = 0.00		1502 480 2502 240 Design issue fee	
Multiple Dependent 0 = 0.00		1503 640 2503 320 Plant issue fee	
Large Entity Small Entity		1406 130 1460 130 Petitions to the Commissioner	
Fee Fee Fee Fee Description		1807 50 1807 50 Processing fee under 37 CFR 1.17(q)	
Code (\$) Code (\$) Fee Description		1806 180 1806 180 Submission of Information Disclosure Stmt	
1202 18 2202 9 Claims in excess of 20		8021 40 8021 40 Recording each patent assignment per property (times number of properties)	
1201 86 2201 43 Independent claims in excess of 3		1809 770 2809 385 Filing a submission after final rejection (37 CFR § 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid		1810 770 2810 385 For each additional invention to be examined (37 CFR § 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent		1801 770 2801 385 Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent		1802 900 1802 900 Request for expedited examination of a design application	
SUBTOTAL (2) \$ 0.00		Other fee (specify) _____	
**or number previously paid, if greater; For Reissues, see above.		SUBTOTAL (3) (\$)	
*Reduced by Basic Filing Fee Paid		40.00	

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Hung H. Bui	Registration No. (Attorney/Agent)	40,415	Telephone	703-312-6600
Signature				Date	12/24/2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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